

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	reference FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
PCT0268	International filing date(day,month/year)	(Earliest) Priority Date (day/month/year)			
International application No.		05/05/92			
PCT/NL93/00093	04/05/93	03;03;72			
Applicant					
TUEDOTTEIT LEIDEN	a+ 31	İ			
RIJKSUNIVERSITEIT LEIDEN	et al.				
This international search report has bee according to Article 18. A copy is being	n prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant			
This international search report consists X It is also accompanied by a constant X	s of a total of4sheets. The prior art document cited in this representations of the state of the	oort.			
E. X Certain claims were found uns	carchable (see Box I).	·			
2. Unity of invention is lacking (
international scarcii was carr	contains disclosure of a nucleotide and/or amin red out on the basis of the sequence listing	o acid sequence listing and the			
· [7] r	led with the international application.	atarastional application			
X	urnished by the applicant separately from the i	the effect that it did not include			
	matter going beyond the disclosure in	the international application as med.			
	Transcribed by this Authority				
4. With regard to the title, X	the text is approved as submitted by the applic	ant			
4. With regard to the due, X	the text has been established by this Authority	to read as follows:			
	•				
5. With regard to the abstract,	the text is approved as submitted by the applic	ant			
		le 38.2(b), by this Authority as it appears in n from the date of mailing of this international			
6. The figure of the drawings to be	published with the abstract is:	None of the figures.			
Figure No.	as suggested by the applicant.	X None of the figures.			
	as suggested by the applicant. because the applicant failed to suggest a figure	c.			
	because this figure better characterizes the inv	venuon.			



PCT/NL93/00093

Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Remark: Although claims 20-21 are directed to a method of treatment of (diagnostic mehtod practised on) the human body the search has been carried out and based on the alleged effects of the compound.
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box 11 Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

PCT/NL 93/00093 International Application I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all)6 According to International Patent Classification (IPC) or to both National Classification and IPC Int.C1. 5 CO7K7/06; A61K37/02 II. FIELDS SEARCHED Minimum Documentation Searched? Classification System Classification Symbols Int.Cl. 5 CO7K: **A61K** Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched® III. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to Claim No.13 Citation of Document, 11 with indication, where appropriate, of the relevant passages 12 Category o X **EUROPEAN JOURNAL OF CANCER** 1,2 vol. 28, no. 2/3, February 1992, pages 326 - 333 ANNETTE ALTMANN ET AL. 'Definition of immunogenic determinants of the human papillomavirus type 16 nucleoprotein E7' * Abstract * see page 327, left column, paragraph 1 -paragraph 2; table 1 see page 329, right column, paragraph 2 page 330, right column, paragraph 1 see page 331, left column, last paragraph - right column, paragraph 2 see page 331, right column, paragraph 7 page 332, left column, paragraph 1 -/--"T" later document published after the international filing date ^o Special categories of cited documents: 10 or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family IV. CERTIFICATION Date of the Actual Completion of the International Search Date of Mailing of this International Search Report **20 SEPTEMBER 1993 29 -**09- 1993 Signature of Authorized Officer International Searching Authority MONTERO LOPEZ B. **EUROPEAN PATENT OFFICE**

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III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)					
Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.			
A	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA. vol. 88, no. 13, 1 July 1991, WASHINGTON US pages 5887 - 5891 ROBERT W. TINDLE ET AL. 'A ' see page 5887, left column, paragraph 1 -last paragraph; figure 1A see page 5888, left column, paragraph 5 - page 5889, left column, paragraph 1 see page 5890, right column, last paragraph - page 5891, left column, last paragraph	1,2,4,5, 15,16,17			
A	JOURNAL OF VIROLOGY vol. 65, no. 9, September 1991, pages 4681 - 4690 SARAH A. COMERFORD ET AL. 'Identification of T- and B-cell epitopes of the E-7 protein of human papillomavirus type 16' * abstract * see page 4685, left column, paragraph 2 - right column, paragraph 1; figure 1	1,2,5,8, 10,12, 14,15			
A	WO,A,9 205 248 (BRISTOL-MYERS SQUIBB COMPANY) 2 April 1992 see page 7, line 9 - page 9, line 18 see page 26, line 22 - page 27, line 15; claims 1,7-10,18,24,38-48	1,16,17, 19,20			
A	EP,A,O 375 555 (MEDGENIX GROUP, S.A.) 27 June 1990 see page 4, line 4 - line 19	1,2,4,5, 6,10,12, 14			
A	EP,A,O 456 197 (BEHRINGWERKE) 13 November 1991 see page 2, line 29 - line 54	1,3,6,16			
P,X	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA. vol. 89, no. 17, 1 September 1992, WASHINGTON US pages 7871 - 7875 HANS J. STAUSS ET AL. 'Induction of cytotoxic T lymphocytes with peptides in vitro: Identification of candidate T-cell epitopes in human papilloma virus'	1,2			

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

NL 9300093 SA 74419

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information. 20/09/93

Patent document cited in search report	Publication date 02-04-92	Patent family member(s)		Publication date
WO-A-9205248		AU-A- CN-A-	8762991 1067382	15-04-92 30-12-92
EP-A-0375555	27-06-90	FR-A- CA-A- JP-A-	2641081 2006118 2291297	29-06-90 23-06-90 03-12-90
EP-A-0456197	13-11-91	DE-A- AU-A- JP-A-	4015044 7621291 4227000	14-11-91 14-11-91 17-08-92